

Demonstration version

Direction:

09.04.01 Informatics and Computer Science

№	Task	Points
1.	Set theory. Basic definitions. Properties. Operations.	10
2.	Computer graphics. Basic concepts.	10
3.	Integer Programming.	10
4.	Boolean algebra.	10
5.	Linguistic support in computer-aided design (control).	10
6.	Which of the following does not describe a geometric model: a) shape of the object b) the color of the object c) mass of the object d) linear dimensions of the object	5
7.	The program that translates the source program in the source language into an equivalent output for the resulting language is called: a) translator b) compiler c) scanner d) interpreter	5
8.	Under the logistics are usually taken to mean? a) rationalize action policy-makers to manage the enterprise and the related organization of information exchange and circulation of funds. b) Materials Management (or service) and associated them with information and financial flows in order to reduce the total cost of the promotion of the goods (or services) from producer to final consumer. c) is logically functions that make up the algorithm of management of material flows and flows of services, as well as related information and financial flows in order to maximize customer satisfaction.	5
9.	What functional area is not included in the logistic structure? a) warehousing and handling, transport products b) information and service c) prices and pricing	5
10.	Common bus topology, a tree, a star with a passive center belong to the class: a) broadcasting; b) sequences.	5

11.	<p>The primary function of the browser:</p> <p>a) The most popular and interesting service of the Internet;</p> <p>b) Find background information about users;</p> <p>c) Access to web-server for the desired page, and the page output to the screen;</p> <p>d) Dialogue system with the window interface.</p>	5
12.	<p>How many levels contains the Open Systems Interconnection model:</p> <p>a) 5;</p> <p>b) 6;</p> <p>c) 7;</p> <p>d) 9;</p> <p>e) 10.</p>	5
13.	<p>At what stage of development is the construction of the area of artificial intelligence?</p> <p>a) artificial intelligence created, but is at an early stage of development;</p> <p>b) have appeared and developed elements of systems with intelligent properties, but the AI is not created;</p> <p>c) humanity has not progressed in the study of artificial intelligence systems;</p> <p>d) none of the above.</p>	5
14.	<p>About these theories and models we can say that they use "soft" computing:</p> <p>a) the law of gravity.</p> <p>b) the Pythagorean theorem.</p> <p>c) the theory of fuzzy sets.</p> <p>d) first-order predicate logic</p>	5
15.	<p>What part can be divided microprocessor PC</p> <p>a) The Executive Unit</p> <p>b) The legislative bloc</p> <p>c) Block Unity</p> <p>d) The device interface with the system bus</p> <p>e) transmission rate matching apparatus</p>	5